



energy fuels nuclear, inc.

executive offices • suite 445 • three park central • 1515 arapahoe • denver, colorado 80202 • (303) 623-8317

April 3, 1978

State of Utah  
Department of Natural Resources  
Division of Oil, Gas, and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

ATTN: Mr. Ron Daniels

Dear Mr. Daniels:

In accordance with our March 8th meeting, we are resubmitting information on our Hillside-Gismo, Maybe, Vallejo, and Bears Ears mining operation.

Please find enclosed the following:

- (1) Notice of Intention to Commence Mining Operations.
- (2) Mining and Reclamation Plan.

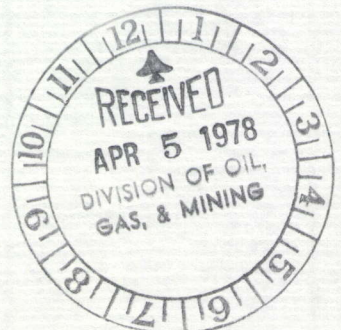
As information on other mining operations becomes available, we will submit similar documents for your review in a timely fashion.

Thank you for your prompt attention to these applications. If you have any questions, feel free to call here at 303/623-8317, ext. 57.

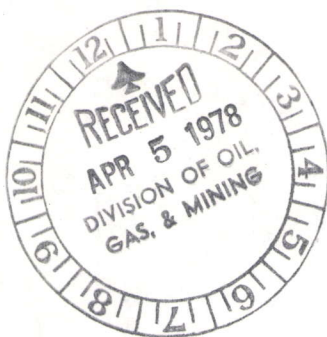
Sincerely,

David J. Markley  
Environmental Coordinator

DJM/lc





Date March 22, 1978

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

MINING AND RECLAMATION PLAN

(Other forms may be used in lieu of MR 2, provided they contain the same information)

1. Name of Applicant or Company Energy Fuels Nuclear, Inc.
2. Proposed type of operation Mining
3. (a) Prior Land Use(s) Mining and restricted grazing  
 (b) Current Land Use(s) Mining and restricted grazing  
 (c) Possible or Prospective Future Land Use(s) Mining and rest. grazing
4. What vegetation exists on the land proposed to be affected None, this is an underground operation and only exsisting disturbed surface sites will be utilized.  
 (a) Types and Estimated Percent cover or density: Scattered Big Sagebrush, Utah Juniper, sparse patches of corymbed wild buck wheat, and various varieties of cactus are indigenous to the area.
5. What is the pH range of soil before mining? Est. 6.8 pH  
 Name of Person or Agency and method of determining pH Field hand samples were collected and analyzed by company lab personnel.
6. Site elevation above sea level 6148.3'
7. In case of coal, oil shale, and bituminous sandstone:  
 Principal seam(s) and thickness(es) This does not apply, this is a uranium operation.
8. Estimated duration of mining operations Depending on market conditions, est. to be five years.
9. Has overburden, waste or rejected materials been classified as acid or alkali producing? ( ) Yes (X) No  
 Does the above material being moved have any other characteristics affecting revegetation? no
10. Will any underground workings or aquifers be encountered? ( ) Yes (X) No  
 Describe \_\_\_\_\_  
 Is there an active discharge of water from abandoned deep mines on or crossing the land affected? (X) Yes ( ) No If yes, describe the quality of water being discharged. Currently being analyzed

11. Describe specifically a detailed procedure for:
- The mining sequence
  - The procedure for constructing and maintaining access roads, to include a typical cross-section and a profile of the proposed road grades.
  - The procedure for site preparation including removing trees and brush.
  - The method for removing and stockpiling topsoil or disturbed materials.
  - The method for the placement or containment of all disturbed materials, to include the method for handling of all acid or alkali-producing and toxic materials.
  - A procedure for final stabilization of disturbed materials.

#### GRADING AND REGRADING

Specifically describe:

- Typical cross-section of regrading.
- The method of spreading topsoil or upper horizon material on the regraded area and indicate the approximate thickness of the final surfacing material.
- What type of soil treatment will be utilized.
- The method of drainage control for the final regraded area.
- Maximum grading slope.

#### TESTING

1. Describe method for testing stability of reclamation fill material. There will be no reclamation fill material used because this is an underground operation.

Describe method for the testing of soil that is intended to support vegetation

Random sampling of all areas to be reseeded.

2. Describe any soil treatment employed as an aid to revegetation
- No unnatural soil treatments will be applied.

3. Describe surface preparation of areas intended to support vegetation: The surface pads and roads will be ripped, water bars will be installed to control drainage and check erosion
- on steep grades.

#### REVEGETATION

1. Revegetation to be completed by:

|   |  |
|---|--|
| <input checked="" type="checkbox"/> Operator        | <input type="checkbox"/> Hydroseeding                    |
| <input type="checkbox"/> Soil Conservation District | <input type="checkbox"/> Aerial Seeding                  |
| <input type="checkbox"/> Private Contractor         | <input type="checkbox"/> Conventional or Rangeland Drill |
| <input type="checkbox"/> Other (specify) _____      | <input type="checkbox"/> Broadcast and Drag              |
|   | <input checked="" type="checkbox"/> Other hand seeding   |

2. Will Mulch be used? ( ) Yes (X) No

Type: \_\_\_\_\_ Rate/Acre \_\_\_\_\_ lbs.

3. Revegetation Plan and Schedule -

| Species     | Rate/<br>Acre | Planting<br>Location | Facing<br>N-S-E-W | Season<br>to be replanted |
|-------------|---------------|----------------------|-------------------|---------------------------|
| Crested     | 12#           | Hillside Portal      | East              | Spring                    |
| Wheat grass | 12#           | Gizmo "              | North             | "                         |
| "           | 12#           | Bears Ears "         | East              | "                         |
| "           | 12#           | Vallejo "            | East              | "                         |
| "           | 12#           | Maybe "              | West              | "                         |

4. Will affected area be subject to livestock or wildlife grazing?

(X) Yes ( ) No Will vegetation protection be needed? No

Wildlife is extremely sparse and grazing is restricted to the  
tops of the mesas. Grazing is possible only during years of  
unusually heavy rainfall.

5. Will irrigation be used: ( ) Yes (X) No Type \_\_\_\_\_

6. Describe maintenance procedures for revegetation if needed, until surety release is granted:

There will be no maintenance procedures  
needed because of the small amount of land that is to be  
revegetated.

STATE OF Colorado

COUNTY OF Denver

I, Muril D. Vincelette, having been duly sworn  
depote and attest that all of the representations contained in the foregoing  
application are true to the best of my knowledge; that I am authorized to  
complete and file this application on behalf of the Applicant and this  
application has been executed as required by law.

Signed: Muril D. Vincelette Vice President

Taken, subscribed and sworn to before me the undersigned authority  
in my said county, this 14th day of April, 19 78.

Notary Public: Linda Jo Repen

My Commission Expires: My Commission expires Jan. 27, 1980

PLEASE NOTE:

Section 40-8-13(2) of the Mined Land Reclamation Act provides as  
follows:

"Information relating to the location, size, or nature  
of the deposit and marked confidential by the operator,  
shall be protected as confidential information by the  
Board and the Division and not be a matter of public  
record in the absence of a written release from the  
operator, or until the mining operation has been  
terminated as provided in subsection (2) of section  
40-8-21."

Is confidential information contained herein?

YES \_\_\_\_\_ (Initial)

NO \_\_\_\_\_ (Initial)

Sections desired to be maintained as confidential information -

ALL SECTIONS  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_